

Serial Number:

09/903,376A

ENTERED

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically: \_\_\_\_\_
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other \_\_\_\_\_
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: \_\_\_\_\_
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: \_\_\_\_\_
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: \_\_\_\_\_
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: \_\_\_\_\_
- ☐ Deleted extra, invalid, headings used by an applicant, specifically: \_\_\_\_\_
- ☒ Deleted: ☒ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as \_\_\_\_\_
- ☐ Inserted mandatory headings, specifically: \_\_\_\_\_
- ☐ Corrected an obvious error in the response, specifically: \_\_\_\_\_
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: \_\_\_\_\_
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted **ending** stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: \_\_\_\_\_
- ☐ Other: \_\_\_\_\_

\*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.



OIPE

## RAW SEQUENCE LISTING

DATE: 09/25/2002

PATENT APPLICATION: US/09/903,376A

TIME: 18:38:05

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\09252002\I903376A.raw

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4 <110> APPLICANT: Brennan, Thomas J.
6 <120> TITLE OF INVENTION: TRANSGENIC MICE CONTAINING 5-HT-2B GENE
7   DISRUPTIONS
9 <130> FILE REFERENCE: R-599
11 <140> CURRENT APPLICATION NUMBER: US 09/903,376A
12 <141> CURRENT FILING DATE: 2001-07-10
14 <150> PRIOR APPLICATION NUMBER: US 60/218,358
15 <151> PRIOR FILING DATE: 2000-07-12
17 <150> PRIOR APPLICATION NUMBER: US 60/223,120
18 <151> PRIOR FILING DATE: 2000-08-07
20 <150> PRIOR APPLICATION NUMBER: US 60/223,122
21 <151> PRIOR FILING DATE: 2000-08-07
23 <160> NUMBER OF SEQ ID NOS: 4
25 <170> SOFTWARE: FastSEQ for Windows Version 4.0
27 <210> SEQ ID NO: 1
28 <211> LENGTH: 1550
29 <212> TYPE: DNA
30 <213> ORGANISM: Mus musculus
32 <400> SEQUENCE: 1
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34 aacaaagcac aacttctgag cacattttac agaagacatg tgatcacctg atcctgacta 120
35 accgttcttg attagagaca gactcagtag cagaggaaat gaagcagact gtggagggac 180
36 aggggcatac agtgactgg gcagctctcc tgatactcgc ggtgataata cccaccattg 240
37 gtgggaacat ccttgtgatt ctggctgttg cactggagaa aaggctgcag tacgctacca 300
38 actacttttt aatgtccttg gcgatagcag atttgctggt tggattgttt gtgatgccga 360
39 ttgccctctt gacaatcatg tttgaggcta tatggccct cccactggcc ctgtgtcctg 420
40 cctggttatt cctcgatgtt ctcttttcaa ctgcctccat catgcatctc tgtgccattt 480
41 ccctggaccg ctatatagcc atcaaaaagc caattcaggc caatcagtgc aacaccggg 540
42 ctactgcatt catcaagatt acagtggatg ggtaatttc aataggcatc gccatcccag 600
43 tccctattaa aggaatcgag actgatgtga ttaatccaca caatgtcacc tgtgagctga 660
44 caaaggaccg ctttggcagt tttatggtct ttgggtcact ggtgctttc ttcgtacctc 720
45 tcaccatcat ggtagtcact tacttttcea ccattcacac tttacagaag aaagcttact 780
46 tgggtcaaaa taagccacct caacgcctaa cacggtggac tgtgccaca gttttcctaa 840
47 gggaagactc atccttttca tcaccagaaa aggtggcaat gctggatggg tctcacaggg 900
48 ataaaattct acctaaactc agtgatgaga cacttatgcg aagaatgtcc tcagttggaa 960
49 aaagatcagc ccaaaccatt tctaatagag agagagcctc gaaggccctt ggagtcgtgt 1020
50 ttttcctttt tctgcttatg tggtgccct tttttattac aaatctaact ttagctctgt 1080
51 gtgattcctg caatcagacc actctcaaaa cactcctgga gatatttgtg tggataggct 1140
52 acgtttcctc gggggtgaat cctctgatct atacactctt caataagaca tttcgggaag 1200
53 catttggcag gtacatcacc tgcaattacc gagccacaaa gtcagtataa gcacttagga 1260
54 agttttccag tacactttgt tttgggaatt caatggtaga aaactctaaa tttttcacia 1320
55 aacatggaat tcgaaatggg atcaaccctg ccatgtacca gagcccaatg aggctccgat 1380
56 gttcaaccat tcagtcctca tcaatcatcc tcctcgatac ccttctcact gaaaacgatg 1440

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57 gcgacaaagc ggaagagcag gtcagctaca tattgcagga acgggcccgc ctcattctga 1500
58 gagaggggtga tgagcaggac gcacgcgcac catggcaggt tcaagagtga 1550
60 <210> SEQ ID NO: 2
61 <211> LENGTH: 504
62 <212> TYPE: PRT
63 <213> ORGANISM: Mus musculus
65 <400> SEQUENCE: 2
66 Met Ala Ser Ser Tyr Lys Met Ser Glu Gln Ser Thr Thr Ser Glu His
67 1 5 10 15
68 Ile Leu Gln Lys Thr Cys Asp His Leu Ile Leu Thr Asn Arg Ser Gly
69 20 25 30
70 Leu Glu Thr Asp Ser Val Ala Glu Glu Met Lys Gln Thr Val Glu Gly
71 35 40 45
72 Gln Gly His Thr Val His Trp Ala Ala Leu Leu Ile Leu Ala Val Ile
73 50 55 60
74 Ile Pro Thr Ile Gly Gly Asn Ile Leu Val Ile Leu Ala Val Ala Leu
75 65 70 75 80
76 Glu Lys Arg Leu Gln Tyr Ala Thr Asn Tyr Phe Leu Met Ser Leu Ala
77 85 90 95
78 Ile Ala Asp Leu Leu Val Gly Leu Phe Val Met Pro Ile Ala Leu Leu
79 100 105 110
80 Thr Ile Met Phe Glu Ala Ile Trp Pro Leu Pro Leu Ala Leu Cys Pro
81 115 120 125
82 Ala Trp Leu Phe Leu Asp Val Leu Phe Ser Thr Ala Ser Ile Met His
83 130 135 140
84 Leu Cys Ala Ile Ser Leu Asp Arg Tyr Ile Ala Ile Lys Lys Pro Ile
85 145 150 155 160
86 Gln Ala Asn Gln Cys Asn Thr Arg Ala Thr Ala Phe Ile Lys Ile Thr
87 165 170 175
88 Val Val Trp Leu Ile Ser Ile Gly Ile Ala Ile Pro Val Pro Ile Lys
89 180 185 190
90 Gly Ile Glu Thr Asp Val Ile Asn Pro His Asn Val Thr Cys Glu Leu
91 195 200 205
92 Thr Lys Asp Arg Phe Gly Ser Phe Met Val Phe Gly Ser Leu Ala Ala
93 210 215 220
94 Phe Phe Val Pro Leu Thr Ile Met Val Val Thr Tyr Phe Leu Thr Ile
95 225 230 235 240
96 His Thr Leu Gln Lys Lys Ala Tyr Leu Val Lys Asn Lys Pro Pro Gln
97 245 250 255
98 Arg Leu Thr Arg Trp Thr Val Pro Thr Val Phe Leu Arg Glu Asp Ser
99 260 265 270
100 Ser Phe Ser Ser Pro Glu Lys Val Ala Met Leu Asp Gly Ser His Arg
101 275 280 285
102 Asp Lys Ile Leu Pro Asn Ser Ser Asp Glu Thr Leu Met Arg Arg Met
103 290 295 300
104 Ser Ser Val Gly Lys Arg Ser Ala Gln Thr Ile Ser Asn Glu Gln Arg
105 305 310 315 320
106 Ala Ser Lys Ala Leu Gly Val Val Phe Phe Leu Phe Leu Leu Met Trp
107 325 330 335

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108 Cys Pro Phe Phe Ile Thr Asn Leu Thr Leu Ala Leu Cys Asp Ser Cys
109           340           345           350
110 Asn Gln Thr Thr Leu Lys Thr Leu Leu Glu Ile Phe Val Trp Ile Gly
111           355           360           365
112 Tyr Val Ser Ser Gly Val Asn Pro Leu Ile Tyr Thr Leu Phe Asn Lys
113           370           375           380
114 Thr Phe Arg Glu Ala Phe Gly Arg Tyr Ile Thr Cys Asn Tyr Arg Ala
115           385           390           395           400
116 Thr Lys Ser Val Lys Ala Leu Arg Lys Phe Ser Ser Thr Leu Cys Phe
117           405           410           415
118 Gly Asn Ser Met Val Glu Asn Ser Lys Phe Phe Thr Lys His Gly Ile
119           420           425           430
120 Arg Asn Gly Ile Asn Pro Ala Met Tyr Gln Ser Pro Met Arg Leu Arg
121           435           440           445
122 Cys Ser Thr Ile Gln Ser Ser Ser Ile Ile Leu Leu Asp Thr Leu Leu
123           450           455           460
124 Thr Glu Asn Asp Gly Asp Lys Ala Glu Glu Gln Val Ser Tyr Ile Leu
125           465           470           475           480
126 Gln Glu Arg Ala Gly Leu Ile Leu Arg Glu Gly Asp Glu Gln Asp Ala
127           485           490           495
128 Arg Ala Pro Trp Gln Val Gln Glu
129           500
132 <210> SEQ ID NO: 3
133 <211> LENGTH: 200
134 <212> TYPE: DNA
135 <213> ORGANISM: Artificial Sequence
137 <220> FEATURE:
138 <223> OTHER INFORMATION: Targeting vector
140 <400> SEQUENCE: 3
141 tgagtgtctg gtgggtttgc taaatgcttt gctaaagcag atgacttgct tagctactga 60
142 ccatgctgac cactgtctgg aactggactg agtcaccaaaggcgaatgg cttcatctta 120
143 taaaatgtct gaacaaagca caacttctga gcacatttta cagaagacat gtgatcacct 180
144 gatcctgact aaccgttctg                               200
146 <210> SEQ ID NO: 4
147 <211> LENGTH: 200
148 <212> TYPE: DNA
149 <213> ORGANISM: Artificial Sequence
151 <220> FEATURE:
152 <223> OTHER INFORMATION: Targeting vector
154 <400> SEQUENCE: 4
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156 gtttggtgag tatttccctt tttcctgcc actgaacact actaacgtag tgaaatggac 120
157 actcactgac ctttattttg tttgaaataa aagaaggacc tggattaaaa acacagaagg 180
158 gaacattcct tcatttttca                               200

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VERIFICATION SUMMARY

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